M. REUTER & SONS

Central Fire Station
Portland, Oregon

METAL PRODUCTS COMPANY

Since 1906

Hollow Metal Doors,
Frames and Trim

Pressed Steel Frames

Kalamein Products

Tin Clad Fire Doors
and Hardware

Hollow Metal Windows
and Trim

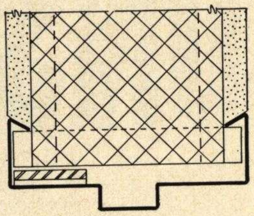
Metal Building Specialties

Complete Underwriter Label Service

2230 S. E. HOLGATE BOULEVARD ★ PORTLAND 2, OREGON

SCALE 3" = 1' 0"

Hollow Metal Frames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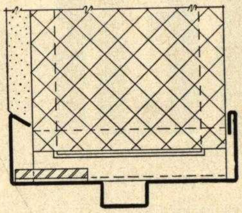
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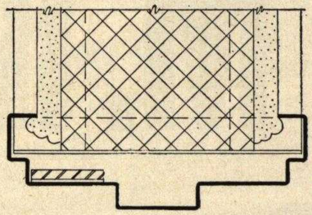
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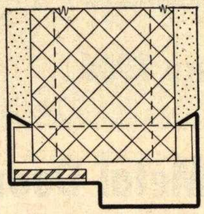
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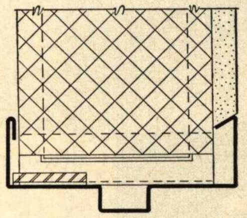
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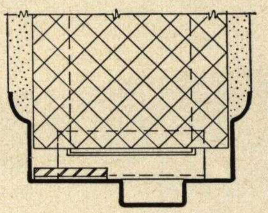
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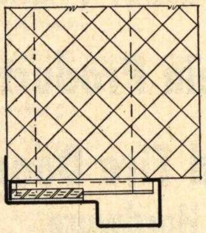
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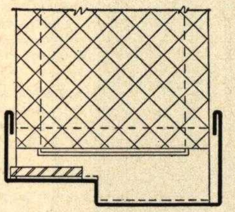
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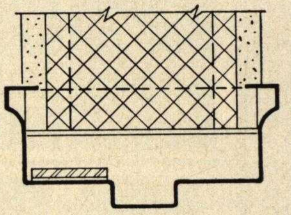
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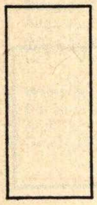
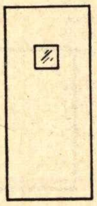
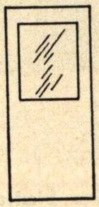
Underwriters' Classifications


UL 3 hr. Rating
UL 1½ hr. Rating
UL ¾ hr. Rating
No Glass


UL 1½ hr. Rating
UL ¾ hr. Rating
Glass 100 sq. in. Max.

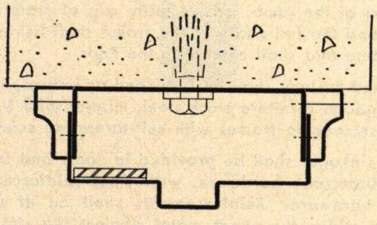

UL ¾ hr. Rating
Glass 1,296 sq. in. Max.

Underwriters' Label can be furnished on Frame Types —
F-3, F-4, F-6, F-7, F-8, F-9, F-11, F-12, F-13, F-14, F-16, F-17.
Also on Channel Frames of 4" Minimum Width.

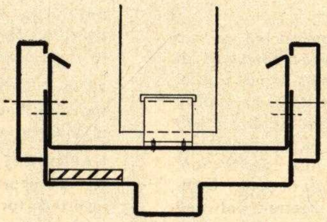
U. L. CLASS "A" (3-HOUR) RATED HOLLOW METAL DOORS WITH CONVENTIONAL SINGLE POINT LOCK OR LATCH

With the above classification, it is no longer necessary to use expensive and complicated 3-point locksets, resulting in a saving of $100.00 or more. Any good grade of single point latch or lock-set with a ¾" throw will suffice. Single doors not to exceed 3'-6" x 7'-0", pairs not to exceed 7'-0" x 7'-0" opening. This is a true hollow metal door pioneered and tested by M. Reuter & Sons, no through bolting necessary.

hollow metal doors and frames



No. F-9 No. F-13



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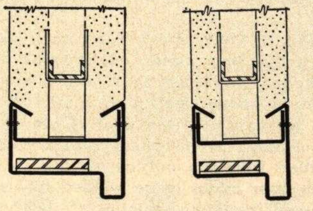
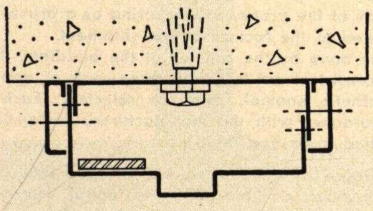


No. F-1

for 1¾″ door for 1⅜″ door



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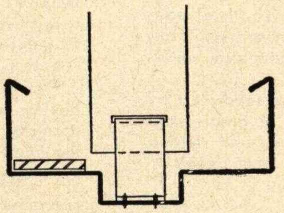

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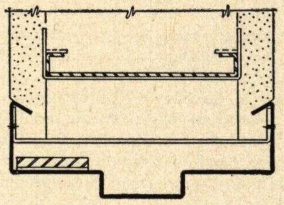

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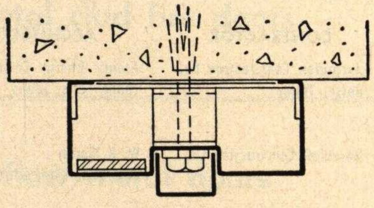

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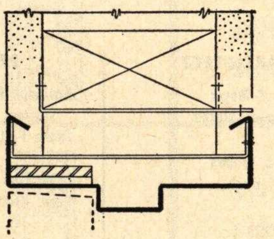

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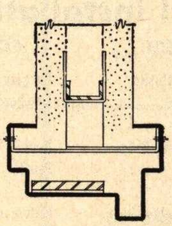
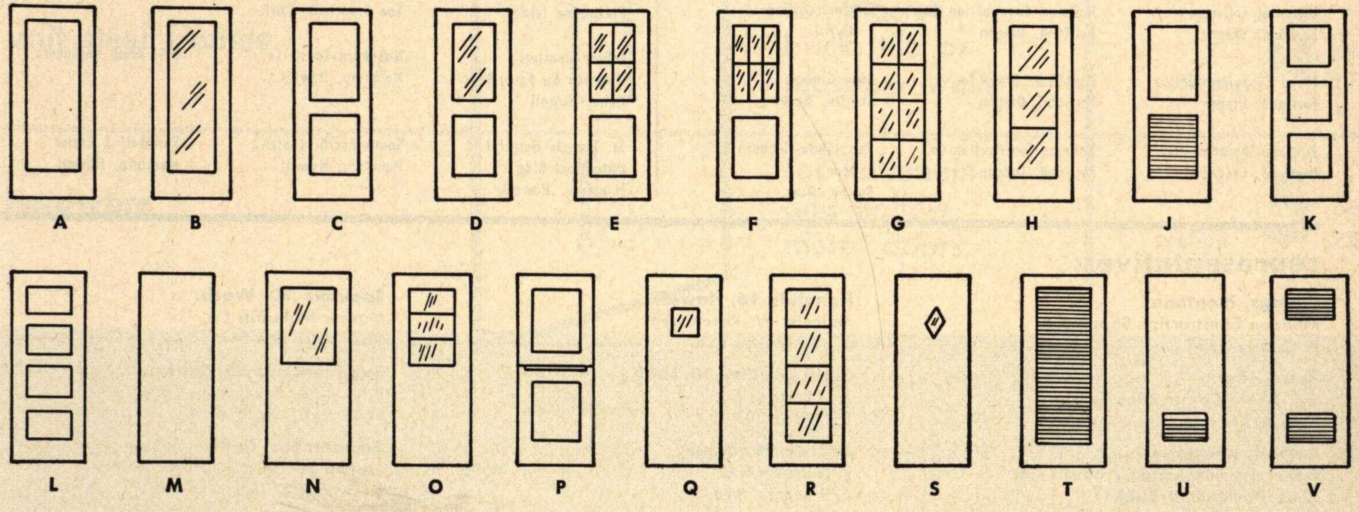


No. F-15

Typical Door Types—hollow metal and kalamein



specifications—HOLLOW METAL DOORS AND FRAMES

GENERAL: All doors scheduled or indicated as "Hollow Metal" shall be of the sizes and designs shown on plans, and of an approved hollow metal type conforming to the following specifications.

MATERIALS: All materials used shall be the best of their respective kinds. Steel shall be stretcher-leveled, full pickled and soft annealed. All gauges shall be United States standard gauges.

FLUSH DOORS: Flush doors shall be 1¾" thick, constructed of two 18 gauge steel plates, edges to be formed to the correct thickness of the door. The doors shall have internal bracing channels of not lighter than 18 gauge steel, placed not over six inches on centers, extending the full height of the door. Channel ribs shall be spot welded every four inches to one sheet vertically—the other sheet to be projection welded from the outside surface so as to form a rigid construction. Both door edges to be welded full length and ground smooth. Compressed insulating material of suitable size shall be inserted between the vertical channels extending full length.

PANEL DOORS: Panel doors shall be 1¾" thick. Stiles and rails to be formed of 18 gauge steel and to be continuously locked to panel mouldings. Stiles are to be fitted to rails, reinforced and welded full length at joints, and ground smooth. Stiffener channels shall be provided inside the doors top and bottom, extending full length of door width. Bottom rails to have interior cross bracing. Compressed insulating material shall be inserted in stiles and rails to eliminate metallic sound.

Panels to be constructed of two 18 gauge steel plates separated by a heat-retardant filler. Panel mouldings to be 18 or 19 gauge cold drawn steel drawn to profile, fitted to panels and mitered and welded at corners forming a continuous frame around panels. Steel panels to be glued and kept under pressure for 24 hours.

FRAMES: Frames as indicated shall be of cabinet type, or combination type of the design and size shown on the plans, and shall be of not less than 16 gauge. Cabinet frame bucks to be not lighter than 14 gauge.

All breaks, arrises, angles and curves shall be uniform, straight, sharply defined and true. The corners shall be mitered, accurately fitted, electrically welded, and ground smooth to produce an invisible joint.

Frames over 3′ 0′ in width shall have a channel reinforcement in the head of the frame.

Each door jamb shall have not less than three anchors each side. For anchorage at the bottom of the jamb, a bent plate clip of material as specified for the jamb, and the full width of the frame shall be welded to the bottom of the frame and shall extend on the floor.

TRIM: Scribe moulds and casings shall be furnished as indicated, and shall be made from 18 gauge furniture stock steel, mitered and welded at the corners, and be secured to frames with self-threading screws.

HARDWARE: Suitable sinkages shall be provided in doors and frames for all mortised or countersunk hardware, with steel reinforcements inserted for attaching hardware. Reinforcements shall be of ample thickness and length to stiffen the sheet metal against the strain of service required. Provide reinforcements for door checks and brackets. Where surface hardware occurs the door and frame shall have interior reinforcing as required.

FINISH: All metal surfaces of the doors, frames and trim shall be properly cleaned and free from oil or other foreign matter, and shall be given two protective coats of the proper undercoating as a prime finish. This finish shall be applied at the factory before shipment.

Finish painting will be done by the painter at the building site (or)

Finish painting shall consist of not less than three coats of approved baking enamel, or synthetic enamel, color as selected. Each coat properly applied in accordance with the manufacturer's instructions—the final coat to be rubbed to an egg-shell gloss.

WEATHERSTRIPPING: Doors indicated as weatherstripped shall be Accurate series 700, or Chamberlin series 800CS, or equal, interlocking weatherstrips on jambs and head, and shall have Out-Dor seals, or equal, applied to door and frame in the field after erection.

Doors shown on plan as (Sound Resistant) shall have all interstices solidly packed with an approved sound-absorbent material.

typical installations

PROJECT	CONTRACTOR	ARCHITECT
University of Alaska College, Alaska	Burgess Construction Co. Fairbanks, Alaska	Manley & Mayer Anchorage, Alaska
Pacific Telephone Bldg. Seattle, Wash.	Henrik Valle Co. Seattle, Wash.	James & Bindon Seattle, Wash.
Women's Residence Bldg. State College of Wash. Pullman, Wash.	Halvorsen Inc. Seattle, Wash.	Paul Thiry Seattle, Wash.
Admission & Security Bldg. Washington State Penitentiary	Johnson-Bushboom & Rauh Spokane, Wash.	John W. Maloney Seattle, Wash.
Ice Harbor Dam Power House Pasco, Wash.	Guy F. Atkinson Co. San Francisco, Calif.	Corp of Engineers U.S. Army
Memorial Coliseum Portland, Oregon	Hoffman Construction Co. Portland, Oregon	Skidmore-Owings & Merrill
Lloyd Shopping Center Portland, Oregon	Donald M. Drake Co. Portland, Oregon	John Graham Seattle, Wash.
Portland-Sheraton Hotel Portland, Oregon	Hoffman Construction Co. Portland, Oregon	Perry-Shaw-Hepburn & Dean Boston, Mass.
National Reactor Testing Station Idaho Falls, Idaho	Arrington Construction Co. Boise, Idaho	Atomic Energy Comm. Idaho Falls, Idaho
Lehi High School Lehi, Utah	Rosenloff Construction Co.	W. R. Smith Salt Lake City, Utah
Holy Cross Hospital Salt Lake City, Utah	Olson Construction Co. Salt Lake City, Utah	John W. Maloney Seattle, Wash.
Campos Verdes Jr. High School Sacramento, California	Campbell Construction & Erickson Construction Co. Sacramento, California	Stark-Jozens & Nacht Sacramento, Calif.
Del Norte High School Crescent City, California	B. & R. Construction Co. San Francisco, Calif.	Hayslip-Tuft & Hewlett Portland, Oregon
U.S. Navy Facilities Cubic Pt. Subic Bay Area Philippine Islands	Pomroy-Hawaiian Dredging-Bechtel San Francisco, Calif.	Bureau of Yards & Docks U.S. Navy Dept.
Officer Quarters Hickman Air Force Base Oahu, Hawaii	Nakakura Const. Co. Honolulu, Hawaii	U.S. Army Engineers
St. Francis Hospital Outpatient Bldg. Honolulu, Hawaii	South Pacific Contrs. Honolulu, Hawaii	Rothwell & Lester Honolulu, Hawaii

representatives:

Billings, Montana
Madden Construction Supply Co.
P. O. Box 1522

Boise, Idaho
Hal Brown Construction Service
P. O. Box 966

Detroit, Michigan
General Consolidated Products Co.
2102 David Stott Bldg.

Honolulu 16, Hawaii
Malcolm W. Rasmussen
1245 Ainakoa Ave.

Salt Lake City 10, Utah
J. L. Parsons Co.
P. O. Box 303

Seattle 99, Wash.
F. T. Crowe & Co
329 Second Ave. W.

Spokane 10, Wash.
Mansur Materials Co.
Post Office Box 14

San Francisco 10, Calif.
Price Bldg. Specialties Co.
2652 Harrison Street

Sacramento, Calif.
Openings
P. O. Box 2705

M. REUTER & SONS • **2230 S.E. Holgate** • **Portland 2, Oregon**

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